

# Brent Scott Stewart

**NATIONALITY:** United States of America (Fairbanks, Alaska)

**PROFESSIONAL TITLE AND AFFILIATION:**

Senior Research Scientist

Director, Marine Vertebrate Ecology Laboratory (MARVEL)

Hubbs-Sea World Research Institute, 2595 Ingraham Street, San Diego, CA 92109

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**EDUCATION:**

Juris Doctorate (J.D.), Boalt Hall School of Law, University of California, Berkeley, CA

Ph.D., Biology, University of California, Los Angeles, CA

M.S., Ecology, San Diego State University, San Diego, CA

B.A., Biology, University of California, Los Angeles, CA

**AFFILIATIONS:**

*Affiliate Faculty*, School of Veterinary Medicine and Wildlife Health Center, University of California at Davis

*Adjunct Professor*, Hawaii Institute of Marine Biology, University of Hawaii

*Adjunct Professor*, University of San Diego

*Adjunct Professor*, University of South Florida

*Adjunct Faculty*, University of Portsmouth, U.K.

*Adjunct Faculty*, University of Capetown, South Africa

*Adjunct Faculty*, University of Pretoria, South Africa

**PROFESSIONAL ORGANIZATIONS:**

The Explorers Club (National Fellow)

The Royal Geographical Society (Fellow)

International League of Conservation Writers

Academy of Model Aeronautics

Ecological Society of America (Life Member)

American Society of Mammalogists

Sigma Xi

Society for Conservation Biology

Society for Marine Mammalogy (Charter Member)

The Wildlife Society

The Arctic Institute of North America

The Society for the Study of Evolution

American Alpine Club

**PROFESSIONAL POSITIONS, HONORS AND EXTRACURRICULAR AND COMMUNITY ACTIVITIES:**

Santa Cruz Island Foundation Advisory Council (2017-Present)

Appointed Member (DoI), *National Invasive Species Advisory Committee* (2016-2019)

The Lowell Thomas Medal (2011; The Explorers Club and Rolex, Inc.)

Global Wildlife Hero (2012)

Certified Senior Ecologist (Ecological Society of America)

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AAAS Science & Diplomacy Fellow

Scientist in Residence & Lecturer, *M/S Expedition*, G-Adventures (2013-Present)

Expedition Leader and Naturalist, *Oceanic Society*

National Fellow, *The Explorers Club*

Fellow, Royal Geographical Society

Department of the Navy Antarctic Service Medal

National Science Foundation Antarctic Service Medal

UCLA Bruin Varsity Club (Wrestling; 1973-Present)

Sons of the American Legion (Lincoln Deming Post 468)

Eagle Scout, Boy Scouts and Explorer Scouts of America

Order of the Arrow, Boy Scouts and Explorer Scouts of America

SCUBA certification (1975; Los Angeles County Underwater Instructors Association, the County of Los Angeles Department of Parks and Recreation Underwater Unit, Los Angeles County Sheriff's Department)

Zodiac MK V driver's certification (Zodiac Milpro, 2015)

Southern Ocean Zodiac Drivers (Antarctic Peninsula, South Georgia, Falkland Islands, Weddell Sea, Amundsen Sea, Bellingshausen Sea, Ross Sea)

Associate Editor, Marine Biology (2007 – Present)

Associate Editor, Aquatic Biology (2007 Present)

Secretary, Expert Group on Seals, Scientific Committee on Antarctic Research (SCAR) (2006-2008)

Deputy Chief Officer, Expert Group on Seals, Scientific Committee on Antarctic Research (SCAR) (2001-2006)

Chief U.S. Scientist, *Oden* Southern Ocean Expedition, Launch of the International Polar Year (2006)

Consultant & Reviewer to the Center for Independent Experts (CIE, University of Miami, 1999-2012)

Diplomacy Fellow, American Association for the Advancement of Science (1999-2001)

International Working Group, U.S. Coral Reef Task Force (1999-2001)

International Working Group, U.S. Invasive Species Council (2000-2001)

U.S. Delegate, Inter-American Tropical Tuna Commission (1999-2001) Member, San Diego

Citizen's Review Board on Police Practices (1997-Present)

Technical Session Chairman, Annual meeting of The Wildlife Society, Monterey, CA, 21-23 January 1999

Program Session Chair, Wildlife Society Annual Meeting (1998-1999)

Member, City of San Diego Citizen's Review Board on Police Practices (Uncompensated employee of the City of San Diego; 1998-2004)

Board of Editors, Journal of Wildlife Law and Policy (1997-2002)

Scientific Advisor to the U.S. Marine Mammal Commission on the Compendium of Selected Treaties, International Agreements, and Other Relevant Documents on Marine Resources, Wildlife, and the Environment (1997-Present)

Scientific Consultant on Marine Mammals to the La Jolla Town Council (1996-Present)

Scientific Consultant to the U.S. Marine Mammal Commission (Bilateral and Multilateral Compendium issues; 1996-Present)

Certificate of Deep Submersible Diving (10,000 ft.), U.S.S.R. (Russian) Academy of Sciences

Expert Witness, Department of Justice (Impacts of Oil Spills on Marine Environments)

All Eight Channel Islands Club (Inducted 1994 as Member #15)

Scientific Consultant; Shamu T.V. satellite-linked, interactive educational production; participant in Emmy Award winning episode "Ocean Olympians" (1995)

Program Chairman, XIth Biennial International Conference on the Biology of Marine Mammals, 13-18 December 1995.

"Top 100 Science Stories of 1995" (Discover magazine, Jan. 1996 issue); re: scientific publication "Double Migrations of the Northern Elephant Seal" (Stewart and DeLong, Journal of Mammalogy, Jan. 1995).

Board of Governors, Society for Marine Mammalogy (1993-1996)

Scientific Program Chairman, XIth Biennial Conference on the Biology of Marine Mammals, Orlando,

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Florida (1993-1995)  
Scientific Advisor, Seal Rock Marine Mammal Preserve (La Jolla, CA; 1993-Present)  
Scientific Advisor, Endangered Species Recovery Council (1994-Present)  
Lecturer in Marine Mammalogy, University of Hawaii (1996)  
Scientific consultant to Pacific States Marine Fisheries Commission on the reauthorization of the Marine Mammal Protection Act (1993)  
Consultant to the U.S. Department of Justice on the impacts of the EXXON Valdez oil spill to the Prince William Sound marine environment (1991-1992)  
Chief U.S. Scientist, Hydrothermal vent and water column community submersible (Mir I and Mir II) expedition aboard Soviet research vessel *Keldysh* (1990)  
Adjunct Professor of Biology, San Diego State University (1989-2000).  
Steering Committee Member, US-Russia Environmental Agreement, Program Area V, Marine Mammals (1989-Present).  
Naturalist/Lecturer (Antarctica); Society Expeditions, Seattle, WA; Abercrombie and Kent, Oak Brook, Illinois 1987-1989 Research Associate, University of San Diego, San Diego, CA (1987-1990)  
Consultant & Independent Reviewer for the Center for Independent Experts (CIE, University of Miami; 1999-Present)  
Marine Science and Foreign Affairs Officer, U.S. Dept. of State, WA, D.C. (1999-2001)  
Senior Research Scientist, Hubbs-Sea World Research Institute, San Diego, CA (1983-Present)  
Field Biologist, Hubbs-SeaWorld Research Institute, San Diego, CA (1980-1983).  
Research Assistant, Hubbs-SeaWorld Research Institute, San Diego, CA (1977-1980)

#### **AD HOC REVIEWERSHIPS (Grant proposals and manuscripts):**

Aquatic Mammals Aquatic Biology  
Arctic  
Antarctic Science  
Canadian Journal of Zoology  
Conservation Science  
Evolution  
Global Ecology and Biogeography  
Journal of Comparative Physiology Journal of Fish Biology  
Journal of International Wildlife Law & Policy  
Journal of Mammalogy  
Journal of Wildlife Management  
Marine Biology  
Marine Mammal Science  
Marine Ecology Progress Series  
National Science Foundation  
Pacific Science  
Polar Biology  
NOAA Prescott Grant Program  
Sea Grant  
South African Journal of Wildlife Research  
U.S. Fisheries Bulletin  
Wildlife Research (Australia)  
Wildlife Society Bulletin

#### **PROFESSIONAL & SCIENTIFIC PROJECT EXPERIENCE AND SPONSORED RESEARCH AS PRINCIPAL INVESTIGATOR**

2017: Ecology of penguins and seals at South Georgia Island

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- 2015 – Present: Ecology of whale sharks at the Galapagos Islands (in collaboration with Jonathan R. Green and Alex Hearn)
- 2013-Present: Computer assisted image recognition and assessment of wildlife (in collaboration with the UCSD Departments of Computer Sciences and Engineering; National Science Foundation)
- 2012-Present: Conservation ecology and conservation of the Tamaraw (*Bubalus mindorensis*) on Mindoro Island, Republic of the Philippines (WWF-Indonesia, Philippines DENR, FEU)
- 2012-Present: Use of remote-control aerial robots (UAVs/Drones) to survey seabirds and marine mammals and their habitats ((Majid al Futaim/Ski Dubai).
- 2012-Present: Population Status, Behavior, bioacoustics and photo-identification of king and gentoo penguins (Majid al Futaim/Ski Dubai).
- 2013: Review of the Biological Opinion for Steller Sea Lions and Bering Sea Fisheries (Center for Independent Experts)
- 2012: Assessment of time lapse photographic records of harbor seals in Drakes Bay Estero, California (USGS)
- 2011-2012: Stakeholders Advisory Group for the Strategic Planning of the California Department of Fish and Game (State Government of California)
- 2010-2011: Distribution, relative abundance, and community composition of marine mammals and seabirds in the Bellingshausen, Amundsen, and Ross seas. National Science Foundation, *Oden* Southern Ocean Expedition 2010-2011.
- 2013-Present: Computer assisted image recognition and assessment of wildlife (in collaboration with the UCSD Departments of Computer Sciences and Engineering; National Science Foundation)
- 2012-Present: Use of remote-control aerial robots (UAVs/Drones) to survey seabirds and marine mammals and their habitats ((Majid al Futaim/Ski Dubai).
- 2012-Present: Population Status, Behavior, bioacoustics and photo-identification of king and gentoo penguins (Majid al Futaim/Ski Dubai).
- 2011-Present: Ecology of whale sharks near West Papua, Indonesia. WWF-Indonesia.
- 2010-2011: Geophysical dynamics of sea ice in the Bellingshausen, Amundsen, and Ross Seas of West Antarctica (*Oden* Southern Ocean Expedition 2010-2011), National Science Foundation
- 2006-Present: Distribution, relative abundance and community composition of sea birds and marine mammals in the Bellingshausen, Amundsen, and Ross seas of West Antarctica, National Science Foundation
- 2009-Present: Ecology of whale sharks in the Philippine Archipelago and Indonesia, World Wildlife Fund & Kerzner Marine Foundation.
- 2008 –Present: Demography, behavior, and population genetics of whale sharks in the Indian Ocean (Maldives & Republic of the Philippines), Kerzner Marine Foundation
- 2007-2010: Behavioral and acoustic interactions between beluga whales and commercial and recreational boat traffic in upper Cook Inlet, Alaska.
- 2007-2010: Assessment of impacts of the Cosco Busan to biological resources in and near San Francisco Bay
- 2007: Present: Migrations and diving patterns of whale sharks from waters of coastal Kenya
- 2007: Ecology of ribbon seals in the Bering Sea (NOAA)
- 2007-2010: Ice Mass Balance in the Antarctic (SIMBA); Research cruise to the Bellingshausen and Amundsen Seas, Antarctica aboard the RVIB Nathaniel B. Palmer (Marine mammal and seabird ecology studies; National Science Foundation)
- 2006: Launch of the International Polar Year. The *Oden* Southern Ocean Expedition to The Bellingshausen, Amundsen, and Ross Seas, Antarctica (US National Science Foundation; Chief Scientist)
- 2006: Survey of the Yangtze River for the endangered Baiji (Yangtze River Dolphin) and the Chinese finless porpoise (Chinese Academy of Sciences, Baiji.org, Anheuser-Busch Entertainment Corp., SeaWorld, Inc., US NOAA Fisheries, Hubbs-SeaWorld Research Institute)

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- 2003: Present: Tracking leatherback sea turtles from space (Florida Space Research Institute; Florida Power and Light; Hubbs Society).
- 2003: Present: Pelagic Ecology of whale sharks (*Rhincodon typus*) from Ningaloo Reef, Northwestern Australia. (U.S. NOAA, NMFS; Woodside Energy Corporation; U.S. Scuba Center).
- 2002: Present: Marine mammal communities of the northwestern Pacific coast of Baja California (Principal Investigator, ChevronTexaco)
- 2000: Present: Use of marine habitats in the northwestern Hawaiian Islands (Lisianski, Midway, Kure, and Laysan Islands) by Hawaiian monk seals (Principal Investigator, NOAA/NMFS).
- 1999-2010: Immunogenetics of Antarctic Pack Ice seals (with N. E. Lehman, Co-P.I.; National Science Foundation).
- 1999-2010: Health assessment of Antarctic Pack Ice seals (with P. K. Yochem , Co-P.I.; National Science Foundation)
- 1999-2007: Pelagic ecology of southern elephant seals (*Mirounga leonina*) from a declining South Atlantic colony (with M.N. Bester, Co-P.I.; University of Pretoria and Hubbs-Sea World Research Institute)
- 1997-1998: Migratory movements and dive patterns of a rehabilitated gray whale calf ("JJ")
- 1997- 1999: Foraging and migratory patterns of Hawaiian monk seals near Pearl and Hermes Reef Northwestern Hawaiian Islands (National Marine Fisheries Service)
- 1997-2001: Modeling multidimensional movements of wildlife (Co-Principal Investigators: D. Brillinger, H. Priestler, J. Kie; National Science Foundation)
- 1996-2003: Migratory ecology of Weddell seals in the Ross Sea, Antarctica (with P. K. Yochem and D. B. Siniff, Co-P.I.s; National Science Foundation).
- 1993-1995: Development of a satellite-linked radio-transmitter package for small cetaceans: dorsal fin vascular structure, tag design, hydrodynamic and energetic evaluation, and functional field test (Office of Naval Research).
- 1993-1997: Monitoring of noise levels and behavioral responses of marine mammals and endangered wildlife at Vandenberg Air Force Base during Taurus Standard Small Launch Vehicle Program Launch event (United States Air Force, Space and Missile Systems Division).
- 1993-2001: Biology and ecology of whale sharks in the Sea of Cortez; satellite- monitored movements, migrations, and dive patterns, foraging ecology, and population genetics.
- 1989-1997: Effects of noise and sonic boom from launch of Titan IV rockets from Vandenberg Air Force Base on pinnipeds and seabirds on the California Channel Islands and at Vandenberg Air Force Base (United States Air Force, Space and Missile Systems).
- 1991-1992: Critical review and synthesis of the effects of oil-spills and other anthropogenic disturbances and natural disturbances on marine mammal populations (EPA, NOAA).
- 1992: Assessment of rates of premature parturition in the California sea lion at San Nicolas Island, California (NOAA, NMFS)
- 1991-1992: Review of satellite telemetry of marine mammals (Naval Oceans Systems Center)
- 1990-1996: Diving and foraging ecology and movements of Baikal seals (Helmsmen, Sea World of San Diego, Siberian Branch of the USSR Academy of Sciences)
- 1988: Satellite telemetry of movements of ringed seals in northern Greenland (Greenland Council for Scientific Research and Sea World, Inc.)
- 1988-1989: Satellite telemetry of wild harbor seals in the Southern California Bight (Hubbs Marine Research Center)
- 1987-Present: Diving patterns and foraging migrations of northern elephant seals (HSWRI, USAF, NOAA)
- 1987-1989: Studies of the diving patterns of pinnipeds in the Southern California Bight (Marjorie-Mosher Schmidt Foundation and The Helmsmen)
- 1984-1989: Non-metrical studies of pelage pattern variation in harbor seals (USSR Academy of Sciences, USSR Fisheries Research Institute, Windstar Foundation and The Helmsmen).
- 1978-1989: Potential impact of sonic booms from SST and other space vehicles on the biota of the California Channel Islands (USAF)

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- 1986-1990: Monitoring entanglement of pinnipeds in marine debris in the Southern California Bight (NOAA, NMFS).
- 1987-1988: Techniques for identifying individual harbor seals by natural markings at Santa Rosa and San Miguel islands, California (NOAA, CHINMS).
- 1986-1987: Diving behavior of Antarctic pinnipeds in the Weddell Sea, Antarctica (NSF, NMML/NOAA)
- 1986: Entanglement of northern fur seals in large and small net fragments at St. Paul Island, Alaska (NOAA/NMFS)
- 1986-1987: Feeding ecology and population biology of Antarctic pinnipeds (NSF, NMML/NOAA)
- 1985: Aerial surveys of Icelandic coastal waters for killer whales and other marine mammals (Marine Research Institute, Reykjavik, Iceland)
- 1985: Population biology of pinnipeds at San Miguel Island (NOAA/NMFS).
- 1984: Population dynamics of the California sea lion at San Nicolas Island, California (NOAA/NMFS).
- 1984: Review of petition to list the Guadalupe fur seal on the Endangered Species Agenda (Western Oil and Gas Association)
- 1984: Aerial surveys of marine mammals in the St. George Basin and the Eastern Aleutians, Alaska (NOAA/OCSEAP)
- 1983-1987: Aerial surveys of pinnipeds in the Channel Islands National Park and National Marine Sanctuary (NOAA/Marine Sanctuary)
- 1982-1984: Radiotelemetry studies of hauling patterns, site fidelity and movements of harbor seals on San Nicolas and San Miguel islands, California (NOAA, NMFS)
- 1982-1983: Effects of man-made waterborne noise on behavior of Belukha whales in Bristol Bay, Alaska (NOAA/OCSEAP)

## PUBLICATIONS:

### In Review

- Gofreed, D. M., C. Diaz Arenas, B. S. Stewart, and N. Lehman. Major histocompatibility complex class II DQA sequences from the ribbon seal (*Histiophoca fasciata*) reveal a lack of genetic diversity.
- Stewart, B.S. and P. K. Yochem. A century of population growth of the northern elephant seal.
- Stewart, B. S. and P. K. Yochem. From rare to robust: sustained population increase of California sea lions.
- Stewart, B. S., R. Rees, M. Riley, A. Harman. Movements of whale sharks in the Maldives Archipelago and Arabian Gulf.
- Stewart, B. S., N. Njonjo, V. Bassen. Seasonal movements of whale sharks along the east African coast.
- Stewart, B.S., D. David. Movements and diving behaviors of whale sharks in the Philippine Archipelago.
- Yochem, P. K., S. Venn-Watson, J. Burchell, J. St. Leger, B. S. Stewart, J. F. X. Wellehan, R. Rivera. Survey of California sea lion astroviruses 1 and 2 (DslAstV1 and CslAstV2) in symptomatic and asymptomatic California sea lions using quantitative Pcr (qPCR).

### 2016

- Stewart, B.S. Ross seal, *Ommatophoca rossii*. Antoartic Environments Portal. 2016: 1-2. <https://www.environments.aq/information-summaries/ross-seal/>
- Tania C, Blæsbjerg M, Himawan MR, Noor BA, Suruan SS, Pranata B, Stewart BS. Characteristics of whale sharks (*Rhincodon typus*) in Teluk Cenderawasih National Park, Indonesia. Science Proceedings, The 4th International Whale Shark Conference, Doha, Qatar. <http://dx.doi.org/10.5339/qproc.2016.iwsc4.62>

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Toha, A.H., Widodo, N., Subhan, B., Himawan, M.R., Tania, C., Noor, B.A., Stewart, B.S., Madduppa, H.H. Close genetic relatedness of whale sharks, *Rhincodon typus*, in the Indo-Pacific region. *AACL Bioflux* 9: 458-465.

## 2015

Esson, D.W., H.N. Nollens, T.L. Schmitt, K.J. Fritz, C.A. Simeone, B.S. Stewart. Aphakic phacoemulsification and automated vitrectomy and post-return monitoring of a rehabilitated harbor seal (*Phoca vitulina richardsi*) pup. *Journal of Zoo and Wildlife Medicine*. 46:647-651.

Tosh, C., N. de Bruyn, J. Steyn, H. Bornemann, J. van den Hoff, B. S. Stewart, J. Plotz, M. Bester. The importance of seasonal sea-surface height anomalies for foraging juvenile southern elephant seals. *Marine Biology* 162:2131-2140. DOI 10.1007/s00227-015-2743-4

## 2014

Stewart, B.S. Family Odobenidae. pp. 102-109 In: *Handbook of Mammals of the World, Volume 4: Marine Mammals*. (D. Wilson, R. Mittermeir, eds). Lynx Press.

Stewart, B.S. Family Phocidae. pp. 120-183. In: *Handbook of Mammals of the World, Volume 4: Marine Mammals*. (D. Wilson, R. Mittermeir, eds). Lynx Press.

Stewart, B.S., J.S. Grove. An Extreme wandering leopard seal, *Hydrurga leptonyx*, at Pitcairn Island, central South America. *Polar Biology* 37:423-425. (DOI 10.1007/s00300-014-1447-4)

## 2013

Boyce, W.M, I. Mena, P. K. Yochem, F. M. D. Gulland, A. Garcí'a-Sastre, N. Moreno, D. R. Perez, A. S. Gonzalez-Reiche, and B. S. Stewart. Influenza A(H1N1)pdm09 virus infection in marine mammals in California. *Nature; Emerging Microbes and Infections* 2:e40 doi:10.1038/emi.2013.40.

Mena, I., W.M. Boyce, P.K. Yochem, F.M.D. Gulland, N. Moreno, D. Perez, A.S. Gonzales-Reiche, B.S. Stewart, A. Garcia-Sastre. Detection of antibodies to pH1N1 influenza virus in marine mammals from California in 2009-2012.

## 2012

Kastner, R., A. Lin, C. Schurgers, J. Jaffe, P. Franks, Brent S. Stewart. Sensor Platforms for multimodal underwater monitoring.

Southwell, C., J. Bengtson, M. Bester, A. S. Blix, H. Bornemann, P. Boveng, M. Cameron, J. Forcada, J. Laake, E. Nordoy, J. Plotz, T. Rogers, D. Southwell, B. S. Stewart, P. Trathan. A review of data on abundance, trends in abundance, habitat use and diet of ice-breeding seals in the Southern Ocean. *CCAMLR Science*. 19:49-74.

Tosh, C., J. Steyn, H. Bornemann, J. van den Hoff, B. S. Stewart, J. Plötz, M. Bester. Marine habitats of juvenile southern elephant seals from Marion Island. *Aquatic Biology*. 17:71-79.

## 2011

Bengtson, J. R., J. L. Laake, P. Boveng, M. F. Cameron, B. S. Stewart. Distribution and abundance of Weddell, Ross, crabeater, and leopard seals in the Amundsen and Ross seas, Antarctica. *Deep Sea Research II* 58:1261-1276.

Curtis, C., B. S. Stewart, S. S. Karl. Genetically effective population sizes of Antarctic seals estimated from maternally, paternally, and biparentally inherited genes. *Conservation Genetics* 12:1435-1446.

## 2010

- Blight, L. K., D. G. Ainley, S. F. Ackley, G. Ballard, T. Ballerini, R. L. Brownell, Jr., C. -H. C. Cheng, M. Chiantore, D. Costa, M. C. Couler, P. Dayton, A. L. Devries, R. Dunbar, S. Earle, J. T. Eastman, S. D. Emslie, C. W. Evans, R. A. Garrott, S. Kim, G. Kooyman, A. Ilescoel, M. Lizotte, M. Massaro, S. Olmastroni, P. J. Ponganis, J. Russell, D. B. Siniff, W. O. Smith, Jr., B. S. Stewart, I. Stirling, J. Willis, P. Wilson, E. J. Woehler. Fishing for data in the Ross Sea. *Science* 220:1316.
- Brillinger, D.R. and B. S. Stewart. 2010. Stochastic modelling of particle movement with application to marine biology and oceanography. *J. Statistical Planning and Inference*. 140:3597-3607.
- Sleeman, J. C., M. G. Meekan, B. S. Stewart, S. G. Wilson, J. J. Polovina, J. D. Stevens, G. S. Boggs, C. J. A. Bradshaw. To go or not to go with the flow: Environmental influences on whale shark movement patterns. *Journal of Experimental Marine Biology and Ecology*, 390: 84-98. (and *J. Exp. Mar. Biol. Ecol* (2011). 396: 255)
- Wilson, R.P., Y. Watanuke, N. Miyazaki, B.S. Stewart. Working beneath the surface: Interplay of biomechanics, physiology and behavioral ecology in diving seabirds. *Aquatic Biology* 8:191-192. (doi: 10.3354/ab00242).

## 2009

- Castellini, M.A., S. Trumble, T. Mau, P.K. Yochem, B.S. Stewart. 2009. Body and blubber measurements of Antarctic pack-ice seals: implications for the regulation of body condition and blubber regulation. *Physiological and Biochemical Zoology* 82:113-120.
- Curtis, C., B. S. Stewart, S. Karl. 2009. Pleistocene population expansion of Antarctic seals. *Molecular Ecology*. 18:2112-2121.
- Stewart, B. S. Diving Behavior. 2009. Pp. 321-325. In: *Encyclopedia of Marine Mammals*. W.F. Perrin, B. Wursig, and G. W. Thewissen (eds). 2d Ed. Academic Press, San Diego.
- Yochem, P. K. and B. S. Stewart. Fur and Skin. Pp. 529-530. In: *Encyclopedia of Marine Mammals*. W. F. Perrin, B. Wursig, and G. W. Thewissen (eds). 2d Edition. Academic Press, San Diego.
- Yochem, P.K., B.S. Stewart, T.S. Gelatt and D.B. Siniff. 2009. Health assessment of Weddell seals (*Leptonychotes weddellii*) in McMurdo Sound, Antarctica. In: *Health of Antarctic Wildlife: A challenge for Science and Policy*. (K. R. Kerry, M. J. Riddle, eds.). Springer- Verlag, Berlin. Pp. 123-138.

## 2008

- Akamatsu, T., D. Wang, K. Wang, S. Li, S. Dong, X. Zhao, Z. Wei, J. Barlow, B. S. Stewart, M. Richlen. 2008. Estimation of the detection probability for Yangtze finless porpoises (*Neophocaena phocaenoides asiaeorientalis*) with a passive acoustic method. *Journal of the Acoustical Society of America* 123:4403-4411.
- Brillinger, D. R., B. S. Stewart, and C. L. Littnan. 2008. Three months journeying of a Hawaiian monk seal. Pp: 246-264, In: D. Nolan and T. Speed (eds.) *IMS Collections, Probability and Statistics: Essays in Honor of David A. Freedman*. Vol. 2.
- Li, S., T. Akamatsu, D. Wang, K. Wang, S. Dong, X. Zhao, Z. Wei, X. Zhang, B. Taylor, L. A. Barrett, S. T. Turvey, R. R. Reeves, B. S. Stewart, M. Richlen, and J. R. Brandon. Indirect evidence of boat avoidance behavior of Yangtze finless porpoises. *Bioacoustics* 17: 174-176.
- Yochem, P.K., F.M.D. Gulland, B.S. Stewart, M. Haulena, J.A.K. Mazet and W.M. Boyce. Thyroid function testing in elephant seals in health and disease. *General and Comparative Endocrinology* 155:635-640.
- Yochem, P.K., B.S. Stewart, J.A.K. Mazet and W.M. Boyce. Hematologic and serum biochemical profile of the northern elephant seal (*Mirounga angustirostris*): variation with age, sex and season. *Journal of Wildlife Diseases* 44:911-921.



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- Ylitalo, G. M., M. Myers, B. S. Stewart, P. K. Yochem, R. Braun, L. Kashinsky, D. Boyd, G. A. Antonelis, S. Atkinson, L. A. Woodward, A. Aguirre, and M. M. Krahn. Organochlorine contaminants in endangered Hawaiian monk seals (*Monachus schauinslandi*) from four Northwestern Hawaiian Islands subpopulations. *Marine Pollution Bulletin*. 56:231-244. Doi:10.1016/j.marpolbul.2007.09.034.
- Zhao, X., J. Barlow, B. L. Taylor, R. L. Pitman, K. Wang, Z. Wei, B.S. Stewart, S. T. Turvey, T. Akamatsu, R. R. Reeves, D. Wang. Abundance and conservation status of the Yangtze finless porpoise in the Yangtze River, China. *Biological Conservation* 141: 3006-3018.

## 2007

- Ainley, D., J. Toniolo, G. Ballard, K. Barton J. Eastman, B. Karl, S. Focardi, G. Kooyman, P. Lyver, S. Olmastroni, B.S. Stewart, J.W. Testa, P. Wilson. Managing ecosystem uncertainty: Critical habitat and dietary overlap of top-predators in the Ross Sea. *CCAMLR Science*
- Castro, A., B.S. Stewart, S. Wilson, R. Hueter, P. Motta, M. Meekan, B. Bowen, S.A. Karl. Population genetics of Earth's largest fish, the whale shark (*Rhincodon typus*). *Molecular Ecology* 16:5183-5192.
- Curtis, C, B. S. Stewart, and S. A. Karl. Sexing pinnipeds with ZFX and ZFY loci. *Journal of Heredity* 98:280-285. (Cover photo).
- Jessup, D. A., P. K. Yochem, M. Stoelting, R. S. Tjeerdema, and B. S. Stewart. 2007. Baseline health parameters and polycyclic aromatic hydrocarbon (PAH) exposure levels for clinically normal harbor seals (*Phoca vitulina*) in California, USA. Pp. 68-78 In: J.G. Massey (ed.). *Proceedings of the Ninth International Effects of Oil on Wildlife Conference*. UC Davis Wildlife Health Center
- Stewart, B.S Los Mamíferos Marinos (Marine Mammals). Pp. 99-107. In: *Islas las Coronados: Una historia y un entorno natural (The Coronados Islands: A history and a natural environment)*. Global Interprint, Hong Kong, China. 153 pp.
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